



(2-92)

Sheet 1 of 9

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)
4076US (99-01860)Application Number
09/548,826Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824**

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CB	3,714,637	01/1973	Beausoleil			
	3,715,735	02/1973	Moss			
	3,735,368	05/1993	Beausoleil			
	3,772,652	11/1973	Hilberg			
	3,781,826	12/1973	Beausoleil			
	3,800,294	03/1974	Lawlor			
	3,845,476	10/1974	Boehm			
	4,355,376	10/1982	Gould			
	4,376,300	03/1983	Tsang			
	4,450,560	05/1984	Conner			
	4,475,194	10/1984	LaVallee et al.			
	4,479,214	10/1984	Ryan			

RECEIVED
FEB 22 2001
Technology Center 2100

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

CB		Shanley, Tom, et al., <i>ISA System Architecture, 3rd Ed.</i> , pp. 126-132 & 221-232, 1995.
		Intel, <i>PC SDRAM Unbuffered DIMM Specification, Revision 1.0</i> , Feb. 1998.
YB		Intel, <i>PC SCRAM Specification, Revision 1.63</i> , Oct. 1998.

EXAMINER

CB

DATE CONSIDERED

2-24-01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

4076US (99-01860)

Application Number

09/548,826Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CB	4,527,251	07/1985	Nibby, Jr. et al.			
	4,881,200	11/1989	Urai			
	4,493,075	01/1985	Anderson et al.			
	4,646,299	02/1987	Schinabeck et al.			
	4,807,191	02/1989	Flannagan			
	4,837,747	06/1989	Dosaka et al.			
	4,876,685	10/1989	Rich			
	4,908,798	03/1990	Urai			
	4,918,662	04/1990	Kondo			
	4,935,899	06/1990	Morigami			
CB	4,992,984	02/1991	Busch et al.			

RECEIVED
FEB 22 2001
Technology Center 2100

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

CB		Pending Patent Application "SYSTEM FOR REMAPPING DEFECTIVE MEMORY BIT SETS" (without claims or abstract), Serial No. 08/903,819, filed July 31, 1997.
		Pending Patent Application "RECOVERY OF USEFUL AREAS OF PARTIALLY DEFECTIVE SYNCHRONOUS MEMORY COMPONENTS" (without claims or abstract), Serial No. 09/035,624, filed March 5, 1998.
		Pending Patent Application "AUTOMATED MULTI-CHIP MODULE HANDLER, METHOD OF MODULE HANDLING, AND MODULE MAGAZINE" (without claims or abstract), Serial No. 09/065,799, Filed April 23, 1998.

EXAMINER

CBW/H

DATE CONSIDERED

2-26-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

4076US (99-01860)

Application Number

09/548,826

Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CB	5,051,994	09/1991	Bluethman et al.			
	5,060,197	10/1991	Park et al.			
	5,124,948	06/1992	Takizawa et al.			
	5,126,973	06/1992	Gallia et al.			
	5,134,584	07/1992	Boler et al.			
	5,200,959	04/1993	Gross et al.			
	5,208,775	05/1993	Lee			
	5,233,614	08/1993	Singh			
	5,243,570	09/1993	Saruwatari			
	5,251,174	10/1993	Hwang			
CB	5,268,866	12/1993	Feng et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

CB		Pending Patent Application "METHOD FOR RECOVERY OF USEFUL AREAS OF PARTIALLY DEFECTIVE SYNCHRONOUS MEMORY COMPONENTS" (without claims or abstract), Serial No. 09/035,739, filed March 5, 1998.
		Pending Patent Application "A SYSTEM FOR DECODING ADDRESSES FOR A DEFECTIVE MEMORY ARRAY" (without claims or abstract), Serial No. 09/067,347, filed April 28, 1998.
CB		Pending Patent Application "A METHOD FOR DECODING ADDRESSES FOR A DEFECTIVE MEMORY ARRAY" (without claims or abstract), Serial No. 09/067,467, filed April 28, 1998.
EXAMINER		DATE CONSIDERED
CBW		2-26-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

4076US (99-01860)

Application Number

09/548,826

Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824**
U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1b	5,270,974	12/1993	Reddy			
	5,270,976	12/1993	Tran			
	5,315,552	05/1994	Yoneda			
	5,327,380	07/1994	Kersh, III et al.			
	5,332,922	07/1994	Oguchi et al.			
	5,337,277	08/1994	Jang			
	5,349,556	09/1994	Lee			
	5,371,866	12/1994	Cady			
	5,379,415	01/1995	Papenberg et al.			
	5,390,129	02/1995	Rhodes			
CD	5,392,247	02/1995	Fujita			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

1b		Pending Patent Application "USE OF PARTIALLY DYSFUNCTIONAL MEMORY DEVICES" (without claims or abstract), Serial No. 09/217,781, filed December 21, 1998.

EXAMINER

1b with

DATE CONSIDERED

2-28-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

4076US (99-01860)

Application Number

09/548,826

Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824**
U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CB	5,400,263	03/1995	Rohrbaugh et al.			
	5,400,342	03/1995	Matsumura et al.			
	5,406,565	04/1995	MacDonald			
	5,410,545	04/1995	Porter et al.			
	5,424,989	06/1995	Hagiwara et al.			
	5,434,792	07/1995	Saka et al.			
	5,465,234	11/1995	Hannai			
	5,469,390	11/1995	Sasaki et al.			
	5,475,648	12/1995	Fujiwara			
	5,475,695	12/1995	Caywood et al.			
CB	5,491,664	02/1996	Phelan			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

CB

DATE CONSIDERED

7-28-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 4076US (99-01860)	Application Number 09/548,826
	Applicant Charlton et al.	
	Filing Date April 13, 2000	Group Art Unit 2824

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
cb	5,497,381	03/1996	O'Donoghue et al.			
	5,502,333	03/1996	Bertin et al.			
	5,513,135	04/1996	Dell et al.			
	5,513,327	04/1996	Farmwald et al.			
	5,528,553	06/1996	Saxena			
	5,535,328	07/1996	Harari et al.			
	5,539,697	07/1996	Kim et al.			
	5,544,106	08/1996	Koike			
	5,548,553	08/1996	Cooper et al.			
	5,553,231	09/1996	Papenberg et al.			
cb	5,576,999	11/1996	Kim et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER CBW	DATE CONSIDERED 2-26-04
------------------------	-----------------------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION FOR A PATENT**

(Use several sheets if necessary)

Docket Number (Optional)

4076US (99-01860)

Application Number

09/548,826Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
cb	5,588,115	12/1996	Augarten			
	5,600,258	02/1997	Graham et al.			
	5,602,987	02/1997	Harari et al.			
	5,631,868	05/1997	Termullo, Jr. et al.			
	5,633,826	05/1997	Tsukada			
	5,636,173	06/1997	Schaefer			
	5,654,204	08/1997	Anderson			
	5,668,763	09/1997	Fujioka et al.			
	5,717,694	02/1998	Ohsawa			
	5,734,621	03/1998	Ito			
cb	5,745,673	04/1998	Di Zenzo et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

C. B. W. H.

DATE CONSIDERED

2-26-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Docket Number (Optional)

4076US (99-01860)

Application Number

09/548,826

Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CB	5,754,753	05/1998	Smelser			
	5,768,173	06/1998	Seo et al.			
	5,758,056	05/1998	Barr			
	5,798,962	08/1998	Di Zenzo et al.			
	5,841,710	11/1998	Larsen			
	5,862,314	01/1999	Jeddeloh			
	5,896,346	04/1999	Dell et al.			
	5,913,020	06/1999	Rohwer			
	5,920,512	07/1999	Larsen			
	5,920,513	07/1999	Jacobson			
CB	5,956,233	09/1999	Yew et al.			

RECEIVED
FEB 20 2001
Technology Center 2100

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

LBW

DATE CONSIDERED

2-26-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

FEB 22 2001

Docket Number (Optional)
4076US (99-01860)Application Number
09/548,826Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **2824****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>CB</i>	5,966,724	10/1999	Ryan			
<i>CB</i>	5,970,008	10/1999	Zagar et al.			
	5,974,564	10/1999	Jeddeloh			
	6,009,536	12/1999	Rohwer			
	6,035,432	03/2000	Jeddeloh			

RECEIVED
FEB 22 2001
Technology Center 2100

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

P. Burt H.

DATE CONSIDERED

2-26-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)
4076US (99-01860)

Application Number
Not Yet Assigned

Applicant **Charlton et al.**Filing Date **April 13, 2000**Group Art Unit **Unknown**

U.S. PTO
09/540026



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CB	5,331,188	07/1994	Acovic et al.			
CB	5,963,463	10/1999	Rondeau, II et al.			
CB	5,991,215	11/1999	Brunelle			
CS	5,995,409	11/1999	Holland			
CB	5,996,096	11/1999	Dell et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

CS		<u>Partial Memory Engine PME v6</u> , Memory Corporation MY11-00600-01, Advanced Data, July 1998 (7 pages).

EXAMINER

DATE CONSIDERED

2-24-04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.